Amendments to the Claims

1-11. (Canceled)

12. (Previously Presented) An apparatus for use in collecting airborne particles comprising:

a collection vessel in which airborne particles are collected for analysis, the collection vessel comprising a microcentrifuge tube having an open end that is orthogonal to a line extending longitudinally with respect to the tube;

an air-inlet conduit for conducting air into the collection vessel, the air-inlet conduit extending at an angle with respect to a plane that is parallel to the open end, the air-inlet conduit being non-orthogonal and non-parallel to said plane; and

an air-outlet conduit for conducting air out of the collection vessel;

wherein the air-inlet conduit and the air-outlet conduit are situated to cause air flowing through the collection vessel to create a vortex, thereby causing airborne particles to separate from the air flowing through the collection vessel.

13. (Original) The apparatus of claim 12 wherein:

the collection vessel is a first collection vessel, the air-inlet conduit comprises a first air-inlet conduit, and the air-outlet conduit comprises a first air-outlet conduit; and

the apparatus further comprises:

a second collection vessel;

a second air-inlet conduit in fluid communication with the first air-outlet conduit so that air flowing through the first air-outlet conduit is conducted into the second collection vessel through the second air-inlet conduit, the second air-inlet conduit being non-orthogonal to a line extending longitudinally with respect to the second collection vessel; and

a second air-outlet conduit for conducting air out of the second collection vessel; wherein the second air-inlet conduit and the second air-outlet conduit are situated to cause air flowing through the second collection vessel to create a vortex, thereby

causing airborne particles to separate from the air flowing through the second collection vessel.

- 14. (Original) The apparatus of claim 13, wherein the first collection vessel is supported in the same orientation as the second collection vessel.
- 15. (Original) The apparatus of claim 12, further comprising a vacuum source fluidly connectable to the air-outlet conduit to draw air through the collection vessel.
 - 16. (Original) The apparatus of claim 12, wherein:

the collection vessel has an open end;

the air-inlet conduit conducts air to flow into the collection vessel through the open end; and

the air-outlet conduit conducts air to flow outwardly from the collection vessel through the open end.

- 17. (Original) The apparatus of claim 12, further comprising an air-flow member adapted to be removably coupled the collection vessel, wherein the air-inlet conduit and the air-outlet conduit are passageways defined in the air-flow member.
- 18. (Original) The apparatus of claim 17, wherein the air-outlet conduit extends into the collection vessel through an open end thereof.
- 19. (Original) The apparatus of claim 13, further comprising an air-flow member adapted to be removably coupled the first and second collection vessels, wherein the first and second air-inlet conduits and the first and second air-outlet conduits are passageways defined in the air-flow member.
- 20. (Original) The apparatus of claim 12, wherein the air flow in the collection vessel is a reverse-flow cyclone.

- 21. (Original) The apparatus of claim 12 having a 50% cut-off diameter of 2 microns.
- 22-33. (Canceled)
- 34. (Previously Presented) A method for collecting airborne particles for analysis, the method comprising:

flowing air through the open end of a microcentrifuge tube along a flow path in a direction that extends generally tangentially with respect to an inner surface of the microcentrifuge tube, the open end being orthogonal to a line extending longitudinally with respect to the tube, the flow path being non-orthogonal and non-parallel to a plane defined by the open end, wherein the air flowing through the microcentrifuge tube establishes a cyclone; and separating airborne particles from the air flowing through the microcentrifuge tube.

- 35. (Previously Presented) The method of claim 34, wherein the air flowing through the microcentrifuge tube establishes a reverse-flow cyclone.
- 36. (Previously Presented) The method of claim 34, wherein the air flowing into the microcentrifuge tube is conducted through an inlet conduit of an air-flow fitting coupled to the microcentrifuge tube, and wherein air flowing out of the microcentrifuge tube is conducted through an outlet conduit of the air-flow fitting.
- 37. (Previously Presented) The method of claim 34, wherein air flowing outwardly from the microcentrifuge tube is conducted into a secondary collection vessel to further separate airborne particles from the air flow.

38-39. (Canceled)